

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of displaying a multi-mode stereoscopic image, comprising the steps of:

aligning a display unit having first pixels for a left-eye picture and second pixels for a right-eye picture, and a variable color barrier unit having first and second variable filters alternated with each other such that the first variable filters are of a first color and a color of the second variable filters is a complement of said first color, wherein each of said first and second variable filters are overlapped with a portion of said first pixels and a portion of said second pixels;

displaying video signals obtained by photographing an object at a different angle on a the display unit;

generating a mode signal for ~~assigning~~ selecting between a stereoscopic mode ~~or~~ and a plane mode;

applying a first voltage and a second voltage to said first and second variable filters, such that said left-eye picture of said first and second pixels is incident to said left eye, and said right-eye picture of said first and second pixels is incident to said right eye, in said stereoscopic mode; and

applying a third voltage to said first and second variable filters to transmit light from said first and second pixels in said plane mode

~~selectively transmitting a left eye picture and a right eye picture of a picture displayed on the display unit by an application of first and second voltages having a different voltage level, such that the left eye picture and the right eye picture are incident to the left eye and the right eye of an observer in the stereoscopic mode, while transmitting the picture displayed on the display unit toward the observer as it is by application of a third voltage other than the first and second voltages in the plane mode.~~

2. (Currently Amended) A multi-mode stereoscopic image displaying apparatus, comprising:

an image signal converter for combining video signals obtained by photographing an object at different angle;

a display device for displaying the video signals received from the image signal converter as a picture, wherein the display device has first pixels for a left-eye picture of the image and second pixels for a right-eye picture of the image; and

~~a variable color barrier, facing to the display device and having, for selectively transmitting a left eye picture and a right eye picture of the picture in response to first and second voltages set to a different voltage level, such that the left eye picture and the right eye picture are incident to the left eye~~

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~~and the right eye of an observer, in a stereoscopic mode, while transmitting said picture as it is in response to a third voltage other than said first and second voltage in a plane mode, said barrier having a plurality of first color filters and a plurality of second color filters alternated with each other in order to have a complementary color relationship~~

a variable color barrier unit having first and second variable filters alternated with each other such that said first variable filters are of a first color and a color of the second variable filters is a complement of said first color, wherein each of said first and second variable filters are overlapped with a portion of said first pixels and a portion of said second pixels; and

a mode conversion controller for generating a mode signal for selecting between a stereoscopic mode and a plane mode;

a voltage source for generating first, second and third voltages; and

a switch connected between said variable color barrier unit and said voltage source to apply said first, second and third voltages to said first and second variable filters of said variable color barrier unit in response to the mode signal.

3. (Currently Amended) The multi-mode stereoscopic image display apparatus according to claim 2, wherein the variable color barrier unit is arranged at ~~the~~ a front side of the display device.

4. (Currently Amended) The multi-mode stereoscopic image display apparatus according to claim 2, wherein the variable color barrier unit is arranged at ~~the~~ a rear side of the display device.

5. (Currently Amended) The multi-mode stereoscopic image display apparatus according to claim 2, wherein the variable color barrier unit is a liquid crystal display panel adopting any one of an electrically controlled birefringence (ECB) mode and a guest-host (GH) mode.

6. (Currently Amended) The multi-mode stereoscopic image display apparatus according to claim 2, ~~further comprising:~~

wherein the ~~a~~ mode conversion controller ~~for receiving~~ receives a user instruction ~~and generating a mode signal for assigning to select between~~ the stereoscopic mode ~~or~~ and the plane mode ~~in accordance with the user instruction;~~

~~a voltage source for generating said first, second and third voltages; and
a switch connected between the variable color barrier and the voltage source to apply said first, second and third voltages to the variable color barrier in response to the mode signal.~~

7. (Currently Amended) A multi-mode stereoscopic image displaying apparatus, comprising:

an image signal converter for combining video signals obtained by

photographing an object at a different angle such that the image signal has a left-eye picture and a right-eye picture;

a display device for displaying the video signals received from the image signal converter;

a color barrier having first color filters alternated with each other such that said first color filters are of a first color and a color of said second color filters is a complement of said first color, wherein each of said first and second color filters are overlapped with a portion of first pixels and a portion of second pixels

~~for selectively transmitting a left-eye picture and a right-eye picture, such that the left-eye picture is incident to the left eye and the right-eye picture is incident to the left eye and the right eye of an observer, the first color filters and the second color filters being alternated with each other in order to have a complementary color relationship; and~~

a light-scattering device, being arranged between the display device and the color barrier, for transmitting an incident light as it is in response to a first voltage in a stereoscopic mode and scattering said incident light in response to a second voltage other than said first voltage in a plane mode.

8. (Original) The multi-mode stereoscopic image display apparatus according to claim 7, wherein the light-scattering device includes a polymer-dispersed liquid crystal (PDLC).

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9. (Currently Amended) The multi-mode stereoscopic image display apparatus according to claim 7, further comprising:

a mode conversion controller ~~for receiving a user instruction and~~ generating a mode signal for ~~assigning~~ selecting between the stereoscopic mode ~~or~~ and the plane mode in accordance with the user instruction;

a voltage source for generating said first and second voltages; and

a switch connected between the ~~variable color barrier~~ light scattering device and the voltage source to apply said first and second voltages to the ~~variable color barrier~~ light scattering device in response to the mode signal.

10. (New) The method of displaying a multi-mode stereoscopic image according to claim 1, wherein each of said first and second variable filters are overlapped with a half portion of said first pixels and a half portion of said second pixels.

11. (New) The multi-mode stereoscopic image displaying apparatus according to claim 2, wherein each of said first and second variable filters are overlapped with a half portion of said first pixels and a half portion of said second pixels.

12. (New) The multi-mode stereoscopic image displaying apparatus according to claim 7, wherein each of said first and second color filters are overlapped with a half portion of said first pixels and a half portion of said second pixels.